

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

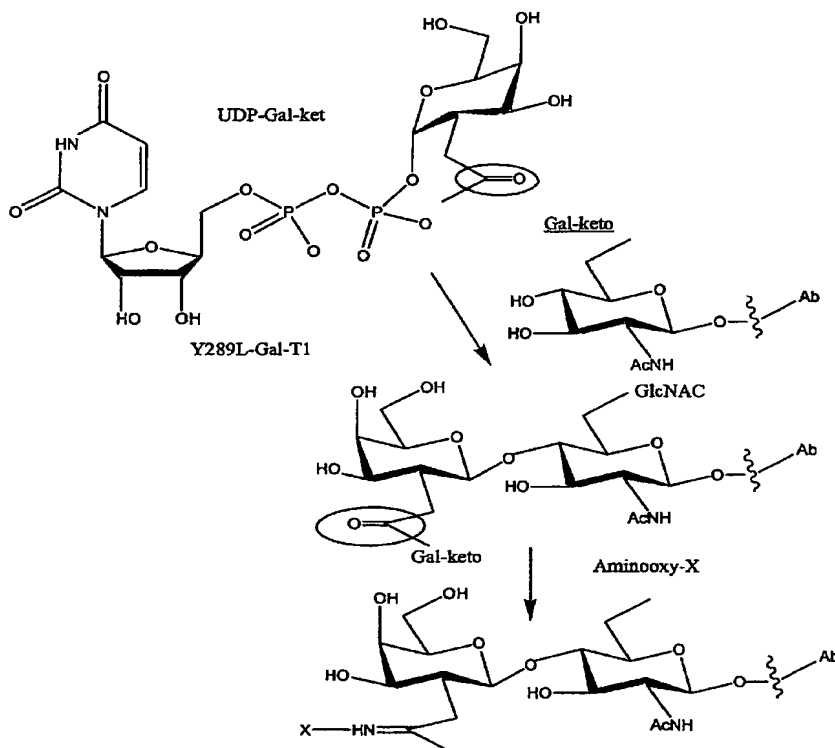
PCT

(10) International Publication Number
WO 2005/051429 A2

- (51) International Patent Classification⁷: **A61K 47/48**
- (21) International Application Number:
PCT/US2004/038781
- (22) International Filing Date:
18 November 2004 (18.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/523,112 19 November 2003 (19.11.2003) US
- (71) Applicant (for all designated States except US): **GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; NATIONAL INSTITUTES OF HEALTH, Office of Technology Transfer, 6011 Executive Blvd., Suite 325, Rockville, Maryland 20852-3804 (US).**
- (72) Inventors; and
- (73) Inventors/Applicants (for US only): **QASBA, Pradman [US/US]; 9300 Cedarcrest, Bethesda, Maryland 20814 (US). RAMAKRISHNAN, Boopathy [IN/US]; 2540 Candle Ridge Dr., Frederick, Maryland 21702 (US).**
- (74) Agents: **CLISE, Timothy, B. et al.; P.O. Box 2938, Minneapolis, Minnesota 55402 (US).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: **TARGETED DELIVERY SYSTEM FOR BIOACTIVE AGENTS**



(57) Abstract: In accordance with the present invention, compounds, compositions and methods are provided that allow for the administration of a bioactive agent to an organism, including a human or an animal. The present invention can be used to treat or prevent a disease and/or disorder with a bioactive agent, or can be used to safely vaccinate a human or animal against a bioactive agent. The invention can also be used as a method for the delivery of bioactive agents for the treatment or prevention of a disease and/or a disorder, particularly targeted delivery of bioactive agents through the administration of glycoconjugates containing a bioactive agent bound to a targeting compound through a modified saccharide residue.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.